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1: Lbl 95
2: ClrHome
3: Disp "GET SLOPE, ETC."
4: Input "X1= ",F
5: Input "Y1= ",G
6: Input "X2= ",S
7: Input "Y2= ",T
8: If F=S
9: Then
10: Disp "VERTICAL LINE"
11: F→Z
12: prgmTOSTR
13: "X = "+Str9→Str9
14: Disp Str9
15: Else
16: If G=T
17: Then
18: Disp "SLOPE=0"
19: Disp "HORIZONTAL LINE"
20: G→Z
21: prgmTOSTR
22: "Y = "+Str9→Str9
23: Disp Str9
24: Else
25: F-S→D
26: G-T→N
27: If D<0
28: Then
29: -D→D
30: -N→N
31: End
32: 1→P
33: If N<0
34: Then
35: -1→P
36: -N→N
37: End
38: gcd(N,D)→E
39: P*N/E→N
40: D/E→D
41: N/D→M
42: Disp "SLOPE ="
43: Disp M▶Frac
44: N→Z
45: If (N=1)*(D=1)
46: Then
47: "Y="→Str1
48: Else
49: prgmTOSTR
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50: "Y="+Str9→Str1
51: End
52: If D≠1
53: Then
54: D→Z
55: prgmTOSTR
56: Str1+"/"+Str9→Str1
57: End
58: Str1+" X"→Str1
59: T*D-N*S→K
60: If K≠0
61: Then
62: 1→P
63: If K<0
64: Then
65: -1→P
66: -K→K
67: Str1+" - "→Str1
68: Else
69: 1→P
70: Str1+" + "→Str1
71: End
72: gcd(D,K)→E
73: D/E→I
74: K/E→K
75: K→Z
76: prgmTOSTR
77: Str1+Str9→Str1
78: If I≠1
79: Then
80: I→Z
81: prgmTOSTR
82: Str1+"/"+Str9→Str1
83: End
84: End
85: Disp "Y=MX+B"
86: Pause Str1
87: Disp "AX + BY = C"
88: -N→Z
89: prgmTOSTR
90: Str9+"X + "→Str1
91: D→Z
92: prgmTOSTR
93: Str1+Str9+"Y = "→Str1
94: P*K*D/I→Z
95: prgmTOSTR
96: Str1+Str9→Str1
97: Pause Str1
98: End
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99: End  
100: Pause "GO ON..."  
101: Goto 95  
102: